

## Case Study: Plant General Services Water



### ► Company Profile

Large cement manufacturer in the U.S. that ships both bag and bulk material around the world.

### ► Challenge

Company secures their raw water from old deep mine wells and has an abundant supply of very clear water when it reaches the surface naturally through an artesian shaft opening. The clarity of the water and the volume allows them to not only supply their own facility water, but also provides the total amount of fresh water to the city. However, once this water emerges from the deep wells, it immediately starts to become contaminated with plant site cement dust and algae. Because of many years of ongoing heat exchangers plugging, AC cooling water plugging, seal water damage, and nozzles plugging, the plant decided to filter all water coming into the plant to reduce the short and long term maintenance.

### ► Solution

It was determined that the plant needed to be broken down into two distinct areas for filtration. The solution chosen was for one system to have self cleaning filter that consisted of a 4" 8 Pod 55 micron filtration degree at 1500 GPM. The second area consisted of a 4" system with 6 Pods at 1000 GPM at 55 microns.

### ► Bottom Line

**The system has been installed and running since January 2013 and has shown to reduce the maintenance on all water related equipment due to the fine filtration of their water.**

